



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L40-835-DIM-UNV-OW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20361.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 06-12-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ CAST HOUSING DOWNLIGHT
 [MORE] WHITE MIXING CHAMBER & 6" SEMI-SPEC ALUMINUM TRIM w/FROST
 [MORE] FILM ADVANCE # XI036C070V054DSM1 @ 810mA
 [LUMCAT] 6DS-L40-835-DIM-UNV-O-W-OF-CS
 [LAMPCAT] BXRE-35E4000
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	41.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18212	26334	17064
55	2326	3944	2326
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	4502.858	4502.858	4502.858	4502.858	4502.858
5	4447.567	4447.567	4439.476	4439.476	4431.385
10	4206.174	4225.054	4222.357	4211.568	4189.991
15	3835.319	3840.713	3843.410	3825.879	3797.559
20	3314.773	3316.121	3294.544	3309.378	3264.876
25	2672.856	2679.599	2705.221	2633.747	2533.954
30	1780.106	1955.419	2087.579	1861.020	1716.723
35	1059.972	1233.937	1399.810	1128.749	1008.727
40	577.186	714.739	833.413	659.448	563.700
45	299.381	358.718	432.889	325.004	280.502
50	122.719	141.599	198.239	130.811	118.674
55	31.017	45.851	52.594	40.457	31.017
60	2.697	4.046	10.789	2.697	1.349
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1481.8	N.A.	38.90
0-30	2684.84	N.A.	70.50
0-40	3459.1	N.A.	90.90
0-60	3806.06	N.A.	100.00
0-80	3807.25	N.A.	100.00
0-90	3807.25	N.A.	100.00
10-90	3390.68	N.A.	89.10
20-40	1977.3	N.A.	51.90
20-50	2271.93	N.A.	59.70
40-70	348.15	N.A.	9.10
60-80	1.19	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3807.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	416.57
10-20	1065.22
20-30	1203.04
30-40	774.26
40-50	294.63
50-60	52.33
60-70	1.19
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	84	80	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	74	65	60	56	64	59	56	64	59	55	63	58	55	54
10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	51

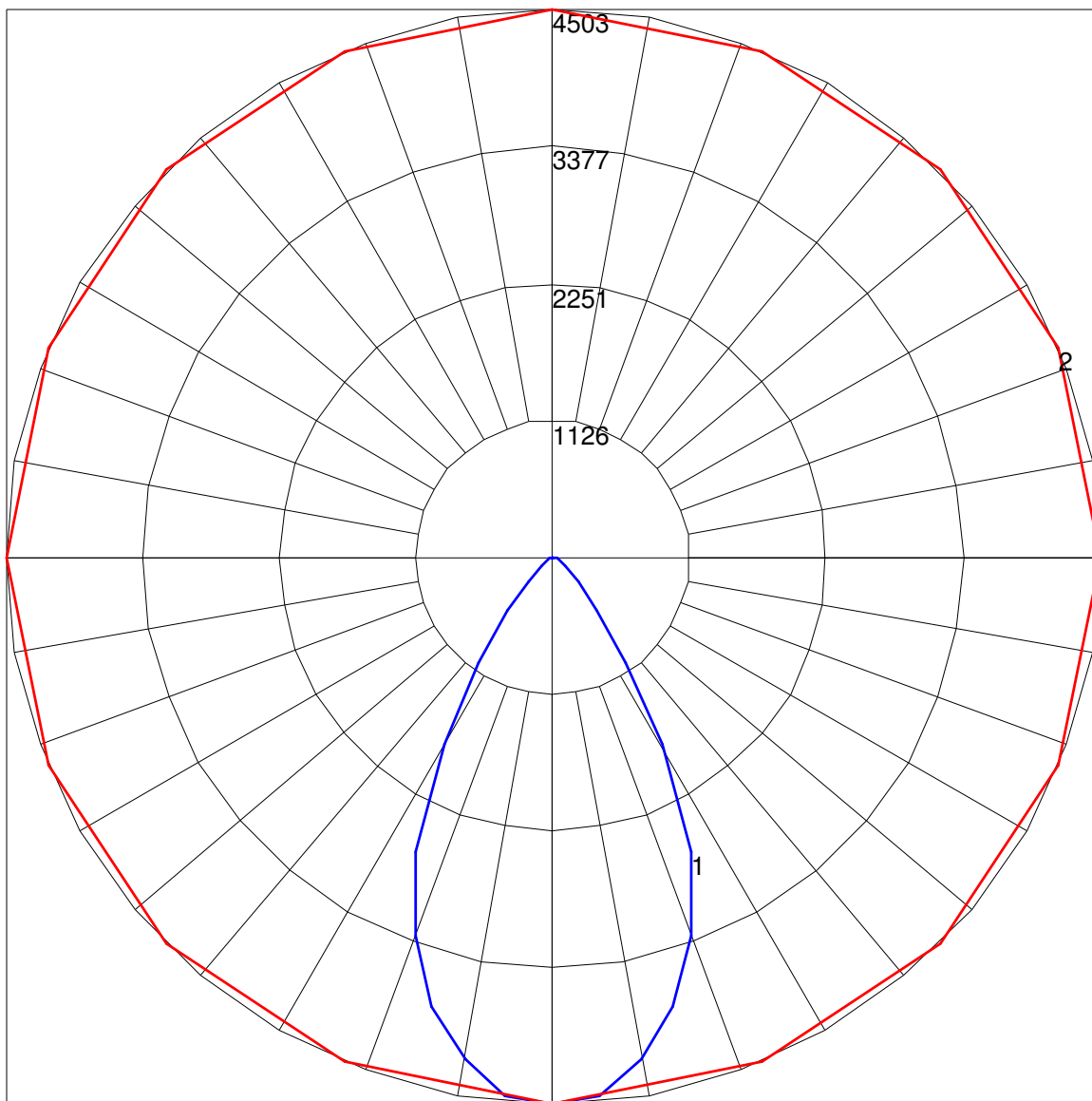
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	4.6	4.6	4.6	4.6	4.9	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.7	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
4H	2H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
8H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
12H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6

Maximum UGR = 4.9

POLAR GRAPH



Maximum Candela = 4502.858 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)